

What is claimed is:

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1. A method of racing control in system management including the steps of determining, regarding newly requested operations under the Common Management Information Protocol (CMIP) defined by an Open System Interconnection (OSI) model, whether or not a managed object instance of operations now being executed and a managed object instance specified by the newly requested operations are the same and, when the instances are different, allowing execution of the newly requested operations, while when the instances are the same, referring to a racing control table formed based on a combination of operation classifications to determine whether it is possible to execute the newly requested operations.

2. A method of racing control in system management including the steps of determining, regarding either one of the newly requested operations of operations under the Common Management Information Protocol (CMIP) defined by the Open System Interconnection (OSI) model and operations inherent to the system, whether or not an external expression establishing correspondence between managed object instances of CMIP operations and resources to be controlled of operations inherent to the system is the same as the external expression of the operations now being executed, when they are different, allowing the execution of the newly requested operations, while when they are the same, establishing correspondence of the classification of CMIP operations with a classification of control of operations inherent to the system and referring to a common racing control table formed based on combinations of the latter classifications of control to determine whether it is possible to execute the newly requested operations.

3. A method of racing control in system management including the steps of determining, regarding either one of the newly requested operations of operations under the

Common Management Information Protocol (CMIP) defined by the Open System Interconnection (OSI) model and operations inherent to the system, whether or not an external expression establishing correspondence between managed object instances of CMIP operations and resources to be controlled of operations inherent to the system is the same as the external expression of the operations now being executed, when they are different, allowing the execution of the newly requested operations, while when they are the same, establishing correspondence of the classification of CMIP operations with the classification of control of operations inherent to the system and referring to a common racing control table formed based on combinations of the former classifications of operations to determine whether it is possible to execute the newly requested operations.

4. A system of racing control in system management by a Common Management Information Protocol (CMIP) operations defined by the Open System Interconnection (OSI) model, provided with:

an operation registration table for registering operations now being executed;  
a racing control table for storing information of whether or not newly requested operations may be executed in the form (matrix) of combinations of classifications of newly requested and now being executed CMIP operations; and

a racing control unit including a first means for extracting operations now being executed from the operation registration table upon newly requested operations, a second means for determining whether or not the managed object instance of the operations now being executed extracted by this first means and the managed object instance of the newly requested operations are the same, and a third means for, when it is determined by this second means that they are the same, determining whether or not newly requested operations can be executed

by referring to the racing control table.

5        5.    A system of racing control in system management  
by a Common Management Information Protocol (CMIP)  
operations defined by the Open System Interconnection  
(OSI) model and operations inherent to the system,  
provided with:

an operation registration table for  
registering operations now being executed;

10        a common racing control table for  
establishing correspondence between classifications of  
operations of CMIP and classifications of control of  
operations inherent to the system and storing information  
on whether or not newly requested operations may be  
executed; and

15        a racing control unit including a fourth  
means for extracting operations now being executed from  
the operation registration table upon newly requested  
operations, a fifth means for determining whether or not  
the external expression corresponding to the managed  
20    object instance of the operations now being executed  
extracted by this fourth means and the external  
expression of the newly requested operations are the  
same, and a sixth means for, when it is determined that  
they are the same by this fifth means, determining  
25    whether the newly requested operations may be executed by  
referring to the common racing control table.

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30        6.    A racing control system as set forth in claim  
5, wherein the common racing control table is structured  
to establish correspondence for classifications of  
control of operations inherent to the system with  
classifications of operations of the CMIP and store  
information of whether newly requested operations may be  
executed in the form of combinations of classifications  
of operations now being executed and classifications of  
35    newly requested operations.

7.    A racing control system as set forth in claim  
5, wherein the common racing control table is structured

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5 to establish correspondence for classifications of  
operations of the CMIP with classifications of control of  
operations inherent to the system and store information  
of whether or not newly requested operations may be  
executed in the form of combinations of classifications  
of control of operations now being executed and  
classifications of control of newly requested operations.

8. A racing control system as set forth in claim  
5, wherein the racing control unit is structured to  
10 determine, regarding CMIP operations and operations  
inherent to the system, whether or not newly requested  
operations may be executed, based on identity of  
expressions of resources to be controlled, identity or  
resemblance of categories of resources to be controlled,  
15 and the classifications of control or groups of  
classifications of control of operations now being  
executed and newly requested operations.